ANALYTICAL SUMMARY REPORT

April 27, 2012

Atkins North America Missoula 1120 Cedar St Missoula, MT 59802-3911

Workorder No.: B12042070
Project Name: Poplar PWS

Energy Laboratories Inc Billings MT received the following 5 samples for Atkins North America Missoula on 4/24/2012 for analysis.

Sample ID	Client Sample ID	Collect Date Receive Date	Matrix	Test
B12042070-001	4298-COP1-UNT1	04/24/12 9:22 04/24/12	Aqueous	Anions by Ion Chromatography Solids, Total Dissolved
B12042070-002	4298-COP1-TRE1	04/24/12 10:02 04/24/12	Aqueous	Same As Above
B12042070-003	4298-COP1-DIST1	04/24/12 10:42 04/24/12	Aqueous	Same As Above
B12042070-004	4298-COP4-UNT1	04/24/12 8:00 04/24/12	Aqueous	Same As Above
B12042070-005	Trip Blank Lot022312, B- TS, SHP0255	04/24/12 8:00 04/24/12	Trip Blank	

The analyses presented in this report were performed by Energy Laboratories, Inc., 1120 S 27th St., Billings, MT 59101, unless otherwise noted. Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

The results as reported relate only to the item(s) submitted for testing.

If you have any questions regarding these test results, please call.

Report Approved By:

Prepared by Billings, MT Branch

Client: Atkins North America Missoula

 Project:
 Poplar PWS

 Lab ID:
 B12042070-001

 Client Sample ID
 4298-COP1-UNT1

Report Date: 04/27/12
Collection Date: 04/24/12 09:22
DateReceived: 04/24/12

Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES Solids, Total Dissolved TDS @ 180 C	1180	mg/L		10		A2540 C	04/26/12 13:10 / ser
INORGANICS Chloride	232	mg/L	D	2		E300.0	04/25/12 17:00 / jrs

Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.

 $\ensuremath{\mathsf{D}}$ - $\ensuremath{\mathsf{RL}}$ increased due to sample matrix.

Prepared by Billings, MT Branch

Client: Atkins North America Missoula

 Project:
 Poplar PWS

 Lab ID:
 B12042070-002

 Client Sample ID
 4298-COP1-TRE1

Report Date: 04/27/12 **Collection Date:** 04/24/12 10:02

DateReceived: 04/24/12

Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES Solids, Total Dissolved TDS @ 180 C	1170	mg/L		10		A2540 C	04/26/12 13:11 / ser
INORGANICS Chloride	234	mg/L	D	2		E300.0	04/25/12 17:11 / jrs

Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.

 $\ensuremath{\mathsf{D}}$ - $\ensuremath{\mathsf{RL}}$ increased due to sample matrix.

Prepared by Billings, MT Branch

Client: Atkins North America Missoula

 Project:
 Poplar PWS

 Lab ID:
 B12042070-003

 Client Sample ID
 4298-COP1-DIST1

Report Date: 04/27/12 **Collection Date:** 04/24/12 10:42 **DateReceived:** 04/24/12

Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES Solids, Total Dissolved TDS @ 180 C	1170	mg/L		10		A2540 C	04/26/12 13:13 / ser
INORGANICS Chloride	225	mg/L	D	2		E300.0	04/25/12 17:22 / jrs

Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.

 $\ensuremath{\mathsf{D}}$ - $\ensuremath{\mathsf{RL}}$ increased due to sample matrix.

Prepared by Billings, MT Branch

Client: Atkins North America Missoula

 Project:
 Poplar PWS

 Lab ID:
 B12042070-004

 Client Sample ID
 4298-COP4-UNT1

Report Date: 04/27/12

Collection Date: 04/24/12 08:00

DateReceived: 04/24/12

Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES Solids, Total Dissolved TDS @ 180 C	1190	mg/L		10		A2540 C	04/26/12 13:15 / ser
INORGANICS Chloride	232	mg/L	D	2		E300.0	04/25/12 17:33 / jrs

Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.

 $\ensuremath{\mathsf{D}}$ - $\ensuremath{\mathsf{RL}}$ increased due to sample matrix.



QA/QC Summary Report

Prepared by Billings, MT Branch

Client:Atkins North America MissoulaReport Date: 04/27/12Project:Poplar PWSWork Order: B12042070

Analyte	Result Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C							Batch: TDS	S120426B
Sample ID: MBLK2	Method Blank			Run: BAL #	11_120426C		04/26	6/12 12:56
Solids, Total Dissolved TDS @ 180 C	ND mg/L	10						
Sample ID: LCS2	Laboratory Control Sam	ple		Run: BAL#	11_120426C		04/26	6/12 12:59
Solids, Total Dissolved TDS @ 180 C	1640 mg/L	10	99	90	110			
Sample ID: B12042005-006A MS	Sample Matrix Spike			Run: BAL#	11_120426C		04/26	6/12 13:03
Solids, Total Dissolved TDS @ 180 C	3060 mg/L	10	93	90	110			
Sample ID: B12042005-007A DUP	Sample Duplicate			Run: BAL#	11_120426C		04/26	6/12 13:04
Solids, Total Dissolved TDS @ 180 C	1680 mg/L	10		90	110	0.1	5	



QA/QC Summary Report

Prepared by Billings, MT Branch

Client:Atkins North America MissoulaReport Date: 04/27/12Project:Poplar PWSWork Order: B12042070

Analyte		Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method:	E300.0							Analytical F	Run: IC203-B	_120424A
Sample ID:	ICV042412-11	Initial Calibratio	n Verification Sta	ndard					04/24	4/12 14:08
Chloride		24.6	mg/L	1.0	98	90	110			
Method:	E300.0								Batch	: R184051
Sample ID:	ICB042412-12	Method Blank				Run: IC203	-B_120424A		04/24	4/12 14:19
Chloride		ND	mg/L	0.2						
Sample ID:	LFB042412-13	Laboratory Fort	ified Blank			Run: IC203	-B_120424A		04/24	4/12 14:30
Chloride		24.4	mg/L	1.0	98	90	110			
Sample ID:	B12042043-004AMS	Sample Matrix S	Spike			Run: IC203	-B_120424A		04/25	5/12 16:26
Chloride		1330	mg/L	13	99	90	110			
Sample ID:	B12042043-004AMSD	Sample Matrix S	Spike Duplicate			Run: IC203	-B_120424A		04/25	5/12 16:37
Chloride		1330	mg/L	13	99	90	110	0.1	20	



Workorder Receipt Checklist

B12042070

Atkins North America Missoula

None

Login completed by:	Jill M. Lippard	Date Received: 4/24/2012						
Reviewed by:	BL2000\jklier	Received by: jrz						
Reviewed Date:	4/25/2012	Carrier Hand Del name:						
Shipping container/cooler in good condition?		Yes 🗸	No 🗌	Not Present				
Custody seals intact on shipp	oing container/cooler?	Yes 🗸	No 🗌	Not Present				
Custody seals intact on samp	ble bottles?	Yes	No 🗌	Not Present ✓				
Chain of custody present?		Yes 🗸	No 🗌					
Chain of custody signed whe	n relinquished and received?	Yes ✓	No 🗌					
Chain of custody agrees with sample labels?		Yes 🗸	No 🗌					
Samples in proper container/	bottle?	Yes 🗸	No 🗌					
Sample containers intact?		Yes ✓	No 🗌					
Sufficient sample volume for	indicated test?	Yes ✓	No 🗌					
All samples received within h (Exclude analyses that are co such as pH, DO, Res CI, Sul	onsidered field parameters	Yes 🗸	No 🗌					
Container/Temp Blank temperature:		0.6℃ On Ice, Tem	np Blank					
Water - VOA vials have zero	headspace?	Yes	No 🗌	No VOA vials submitted				
Water - pH acceptable upon	receipt?	Yes 🗸	No 🗌	Not Applicable				
Contact and Corrective Actio	n Comments:							

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RGY

Chain of Custody and Analytical Request Record

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700--003 504 200-97° 90 100-02 oz hoz 10 Š KKENT / VERRIT EPA/State Compliance: Sampler: (Please Print) □ ≗ Quote/Bottle Order: Receipt Temp **Custody Seal** 51463 On Bottle On Cooler Signature Match On Ice: Intact YAOTAAOAAJ ≺es□ Contact ELI prior to RUSH sample submittal scheduling - See Instruction Page for charges and ${\cal G})$ ATKINSGLORAL.com Comments: 85250001 BRENT. METERTIF Purchase Order: Sample Origin State: PLEASE PRINT (Provide as much information as possible.) Email Date/Time \propto S I. (TAT) bruonerruT brebrief2 × × × × 5HP02 SEE ATTACHED SL21-265 90h analysis requested ~ 150-0HZ Received by (print) 5 Phone/Fax: 5 Project Name, PWS, Permit, Etc. 16 RAPAIT 2 *₽* ≥*S* 9 nvoice Contact & Phone: アンド *∌ai≥lo*7#0 FORTER × Contact Name: BREWT Mumber of Containers Sample Type: A W S V B O D Air Water Soils/Soilds Vegetation Bioassay Other DW - Drinking Water HRVS MATRIX Collection EDD/EDT(Electronic Data) 425 Time 1007 2501 77 808 41 SSOULA, MT 59802 4/24 7 21/52/5 THINS NA /re 21/12 Report Mail Address: 1/20 GGDAR TE Collection Format: LEVEL IV 147 Date NELAC 3 ঠ 4569-001-DIST 149-400-8624 Relinquished by (print (Name, Location, Interval, etc.) 4258-COPI-UNT 901-100.837h SAMPLE IDENTIFICATION Special Report/Formats: TRIP BLANK EMP FLANK **POTW/WWTP** Company Name: Invoice Address: Custody Other: State: ⋛ 2 6

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested.

This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report.

Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.

Lab Disposal:

Return to Client:

Sample Disposal:

Signed

Signature

Date/Time

Received by (print):

9

<u>7</u>

Received by Laboratory:

Record

MUST be